THE ALBERTA SWINE IMPROVEMENT PROGRAM ANNUAL REPORT 1986

Agriculture Canada

Alberta AGRICULTURE

Pork Industry Branch

1986 ANNUAL REPORT

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The Swine Improvement Program in Alberta is a joint Federal-Provincial program for both purebred and commercial swine breeders.

The performance testing program for breeding stock producers is a two part program consisting of:

1. An "on farm" performance test of backfat and growth rate of boars and gilts performed by provincial staff.
2. A central station test of boars for backfat and average daily gain at either the Leduc or Lacombe test stations which are owned and operated by Agriculture Canada.

Commercial producers may use the ultrasonic home test program for the selection of gilts within their herd providing they meet certain basic requirements.

The Sow Productivity and Management Program is available for either breeding stock or commercial operators to record production parameters of their sows on an individual and herd basis.

The Alberta Swine Improvement Advisory Committee (ASIAC) for 1986 consisted of the following members:

D. S. Harbison (Chairman) - Supervisor, Swine Breeding, Pork Industry Branch, Alberta Agriculture
S. P. Eagles (Secretary) - Regional Production Officer, Livestock Division, Agriculture Canada
A. Lange - Supervisor, Swine Improvement, Alberta Agriculture representative
K. Rasmuson - Alberta Agriculture appointed producer
B. Reiter - Alberta Agriculture appointed producer
C. Ormond - Alberta Agriculture appointed producer
J. Knobben - Alberta Swine Breeders Association appointed producer
G. Matejka - Alberta Swine Breeders Association appointed producer
W. Weber - Alberta Swine Breeders Association appointed producer
R. Barrett - Alberta Pork Producers Marketing Board representative
B. Milne - Western Hog Growers Association representative

Advisory Members:
Dr. F. X. Aherne - Swine Nutritionist, University of Alberta
Dr. A. P. Sather - Animal Geneticist, Lacombe Research Station
Dr. C. Schipper - Swine Herd Health Program, Alberta Agriculture

Ex-Officio Members:
K. J. Spiller, Director, Animal Industry Division, Alberta Agriculture
D. C. Beaton, Regional Director, Food Production and Inspection Branch, Agriculture Canada
F. W. Schuld, Head, Pork Industry Branch, Alberta Agriculture
G. J. Regehr, Program Co-ordinator, Livestock and Poultry, Agriculture Canada

THE ALBERTA SWINE IMPROVEMENT PROGRAM IN 1986

The format of this annual report is again in three parts. Part A entitled general information shows trends in 5 and 10 year timelines in Tables I and II. Part B shows results from each test station for 1986 and 1985 in Tables IV and IVa, culling information in Table V, sire evaluations and boar sale results in Table VI. Home test information is shown in Tables VII, VIII, IX, X and XI. Sow productivity information is in Table XII. The herds enrolled on sow productivity are not necessarily the same ones enrolled on performance testing.

The Swine Improvement Program in Alberta was in a transition year in 1986. There were indications of change but nothing really happened. The federal government was still looking for another provincial or private organization to operate the boar test stations at Leduc and Lacombe. In response, the Alberta Swine Breeders Association (ASBA) passed a resolution at their annual meeting to request a study to look at the feasibility of privatizing any or all portions of performance testing and genetic marketing (i.e. test stations, home testing and the provincial A.I. unit). After discussions with all sectors involved, it was agreed that this study was to look at the best future direction and structure of Alberta performance testing and genetic marketing programs, regardless of what body operates any portion or all segments. This study will commence in March of 1987.

The boar testing fees at the stations instituted by the federal government in 1985 certainly had a depressing effect on numbers tested as can be seen from Table I. This was also aggravated by the fact that more herds are switching to the 'minimal disease' or 'high health' status and as such are reluctant to test their boars with the 'conventional' health herds. There is a movement afoot to make one station for the exclusive use of 'high health' boars but, so far, to no avail. The commitment of breeders to use test stations will be evaluated in the above mentioned study, in any event.

There were two publications of sire and dam "Estimated Breeding Values" (EBV's) received from Agriculture Canada during the year; one in March and the other in August. Sire EBV's were incorporated into the Home Test Report beside sire identification, when available. Also, sire EBV's were reported on the test station sale notices where available. A new publication called "Swine Improvement Programs and Procedures" was developed, printed and widely distributed. It was intended to inform commercial producers, in a simplified manner, about the basics of breeding stock selection and uses of the Swine Improvement Program. Considerable time and effort was spent promoting the sow productivity program and about 30 new herds were signed on the program. Not all started submitting data immediately, but there was considerable interest by commercial producers for this program. Unfortunately, only six purebred producers have joined the program to date, but a few more do have their own computer programs. Decentralization of data entry for sow productivity to the Edmonton office has decreased turnaround time to two days in the office and 4.5 days in the mail (incoming).

Looking at the performance figures, it can be seen that performance figures are improving again which is a good sign. It should be remembered that the terms crossbred and commercial are used interchangeably. This refers to pigs which cannot be identified as belonging to a specific breed. The number of farms on the program have again decreased which shows more consolidation is occurring in the industry. Numbers tested on farms are holding up well. Test station sales, although not large, reached the second highest average in the past 10 years (see Table VI).

There were a few staff changes during the year. Most noteably, Stewart Eagles retired December 31 after 35 years of service with Agriculture Canada. Mr. Eagles will certainly be missed as a guiding and stabilizing influence to the program. We certainly wish him well in retirement. Also, Bryon Wolters resigned his part-time position at Vermilion in October. He was replaced by Ron Sellers, a grain and cattle farmer from the Innisfree area.

PART A - GENERAL DATA

TABLE I

ALBERTA SWINE IMPROVEMENT PROGRAM
PERFORMANCE TESTING SUMMARY
1982 - 1986

Boars Station Tested	1982	1983	1984	1985	1986
Number	872	780	872	794	638
Avg. Backfat thickness (mm)	15.3	15.2	14.0	14.5	14.4
Avg. daily gain (kg)	0.92	0.93	0.91	0.92	0.91
Avg. feed conversion	2.43	2.46	2.45	2.41	2.48
Avg. age to 90 kg. (days)	147	148	144	145	144
Boars Home Tested					
Number	4,750	5,851	6,164	5,641	5,461
Avg. backfat thickness (mm)	13.9	13.9	14.1	14.3	13.8
Avg. age to 90 kg. (days)	162	159	157	157	155
TOTAL BOARS TESTED	5,622	6,631	7,036	6,435	6,035
Gilts Home Tested					
Number	10,990	11,809	12,004	12,474	11,651
Avg. backfat thickness (mm)	15.2	14.8	15.4	15.6	15.2
Avg. age to 90 kg. (days)	172	167	171	169	167
TOTAL PIGS TESTED	16,612	18,440	19,040	18,909	17,750

BOARS HOME TESTED - 1976 - 1986

YEAR	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE AT 90 KG. (days)
1976	1,305	16.5	166
1977	1,965	15.8	163
1978	2,676	15.4	167
1979	3,937	15.0	172
1980	4,207	14.6	171
1981	4,201	14.4	166
1982	4,750	13.9	162
1983	5,851	13.9	159
1984	6,164	14.1	157
1985	5,641	14.3	157
1986	5,461	13.8	155

GILTS HOME TESTED - 1976 - 1986

1976	3,159	17.8	174
1977	4,390	17.4	172
1978	7,790	16.8	177
1979	9,988	16.0	177
1980	9,664	15.7	174
1981	9,778	15.8	174
1982	10,990	15.2	172
1983	11,809	14.8	167
1984	12,004	15.4	171
1985	12,474	15.6	169
1986	11,651	15.2	167

TABLE IV

1986 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	264	36	16	14	4		334
NUMBER TESTED	253	35	16	14	4		322
AVERAGE BACKFAT at 90 kg (mm)	14.3	13.6	15.2	13.3	14.2		14.2
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.91	0.85	0.88	0.89	0.89		0.90
FEED CONVERSION (kg feed/kg gain)	2.46	2.62	2.59	2.55	2.63		2.49
AVERAGE AGE @ 90 kg (days)	144	145	142	154	151		144
NUMBER CULLED	150	23	10	9	3		198
NUMBER UNSOLD	19	3	1	2			25
NUMBER SOLD	92	10	6	2	1		111
TOTAL PRICE	47,685	4,815	1,785	1,200	350		55,835
AVERAGE PRICE	518.32	481.50	297.50	600	350		503.02

TABLE IV

1986 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	218	50	8	18	8	2	304
NUMBER TESTED	213	50	8	18	8	2	299
AVERAGE BACKFAT @ 90 kg (mm)	14.9	14.3	15.1	13.3	14.3	14.9	14.6
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.94	0.89	0.94	0.93	0.85	0.95	0.93
FEED CONVERSION (kg feed/kg gain)	2.46	2.55	2.53	2.47	2.47	2.35	2.47
AVERAGE AGE @ 90 kg (days)	143	143	144	148	158	137	144
NUMBER CULLED	121	29	6	6	6	1	169
NUMBER UNSOLD	17	5					26
NUMBER SOLD	76	16	2	12		1	109
TOTAL PRICE	37,450	9,750	1,100	5,275	775	300	54,650
AVERAGE PRICE	492.76	609.37	550.00	439.58	387.50	300	501.38

TABLE IVa

1985 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	286	54	30	22	2	10	404
NUMBER TESTED	275	48	25	22	2	10	382
AVERAGE BACKFAT at 90 kg (mm)	14.25	14.43	15.1	13.2	16.2	14.7	14.3
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.901	0.90	0.91	0.89	0.98	.90	0.90
FEED CONVERSION (kg feed/kg gain)	2.38	2.44	2.46	2.23	2.36	2.37	2.38
AVERAGE AGE @ 90 kg (days)	147	145	143	155	132	150	147
NUMBER CULLED	190	29	25	13	2	9	268
NUMBER UNSOLD	42	8	2	3			55
NUMBER SOLD	54	17	3	6		1	81
TOTAL PRICE	22,625	7,720	1,300	2,110		300	34,055
AVERAGE PRICE	418.98	454.12	433.33	351.67		300	420.43

TABLE IVa

1985 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	296	46	38	10			390
NUMBER TESTED	291	46	38	10			385
AVERAGE BACKFAT @ 90 kg (mm)	14.6	14.0	16.0	13.7			14.7
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.93	0.90	0.96	.93			0.93
FEED CONVERSION (kg feed/kg gain)	2.44	2.47	2.45	2.39			2.44
AVERAGE AGE @ 90 kg (days)	143	141	142	154			143
NUMBER CULLED	172	24	22	5			223
NUMBER UNSOLD	49	4	6	3			62
NUMBER SOLD	75	18	10	2			105
TOTAL PRICE	33,360	9,500	4,500	1,000			48,360
AVERAGE PRICE	444.80	527.78	450.00	500.00			460.57

TABLE V
CULLING INFORMATION

REASONS FOR CULLING: 1986 & 1985

	LEDUC TEST STATION				LACOMBE TEST STATION			
	1986	%**	1985	%**	1986	%**	1985	%**
Total Culled*	198	59	268	66	169	56	223	57
Performance	165	49	206	51	130	43	178	46
Feet and Legs	24	7	36	9	30	10	47	12
Underline***								
Testicles			1	1	1	1	1	1
Rupture	2	1					2	1
Abscess							1	1
Died	4	1	4	1	6	2		
Shaking	3	1	2	1	2	1	3	1
Returned to Breeder					1	1		
Bloody Urine								
Ridgling			2	1				
Enlarged Sheath			2	1			1	1
Ulcers								
Prolapsed Anus								
Undershot Jaw								
Illness			5	1				
Lack of Condition					5	2		
Sent to Lab								
Halothane	2	1	7	2			2	1
Castrated	2	1	7	2			2	1
Other								
Total Entered	334		404		304		390	

* Total pigs culled may be for one or more reasons.

** % shown is calculated as a proportion of total pigs entered.

***Boars with defective underlines are not culled but moved to the end of the sale order and announced as such to the buyers.

1986 TEST STATION SIRE EVALUATIONS

Listed below are all sires who had progeny tested in the Alberta stations. The results are shown as deviations from the average. A minimum of 8 progeny are required for a sire evaluation. The coding following the sires' identification is thus:

N - is a new evaluation started and completed in 1986.

C - is an evaluation started in a previous year and completed in 1986.

U - is an evaluation completed in 1985 with additional progeny tested in 1986.

It should be remembered that the desirable sires exhibit the following characteristics:

- negative figures for backfat, feed conversion and age
- positive figures for average daily gain
- index value over 100

Age and feed conversion are not included in the test station index but are shown for information only.

A.I. sire information is shown only once at the end. Results for these are taken from progeny submitted by many breeders.

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Agra Farms	ARHL 385S	York (C)	14	0.0	+0.03	-0.01	-4.5	106.6
	ROU 542S	York	6	Incomplete				
	ARHL 728S	York	4	Incomplete				
	ARHL 311T	York	4	Incomplete				
	ARHL 378T	York	2	Incomplete				
	ARHL 521T	York	2	Incomplete				
	ARHL 827T	York	2	Incomplete				
	ARHL 555S	Land	2	Incomplete				
	ARHL 840S	Land	2	Incomplete				
	ARHL 1046S	Land (N)	16	-0.8	-0.04	+0.11	+4.6	97.9
	AOUD 1446S	Land	6	Incomplete				
Baert, M.	ARVY 468R	Duroc	2	Incomplete				
	AHPZ 162S	Duroc	4	Incomplete				
Duff, D.	DASA 360S	Land	2	Incomplete				
	GARY 420S	Land	8	-0.2	-0.05	+0.04	-1.3	90.6
	MCMC 8T	Land	2	Incomplete				
Fairview College	OAF 334S	York	4	Incomplete				
	JKAA 311T	York (N)	8	-2.7	-0.08	+0.12	+17.0	111
Five Lakes Farms	JKAA 0792P	York (U)	43	-0.3	-0.06	+0.11	0.0	105.3
	JKAA 982S	York (N)	10	+1.7	-0.03	+0.06	+4.8	77.9
	ANZI 1722S	York	4	Incomplete				
	AOET 1395S	York (N)	18	-0.4	+0.07	-0.05	-4.7	120.1
	JKAA 1021T	York	2	Incomplete				
	JKAA 1140T	York	2	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Five Lakes Farms (continued)	JA 503R	Lac (C)	8	+0.1	-0.01	+0.06	-2.8	96.3
	JA 702S	Lac	2	Incomplete				
	KR 1303S	Lac (N)	12	+0.1	+0.01	+0.06	-2.8	90.5
	JA 110T	Lac	4	Incomplete				
	AJCM 1003S	Hamp (C)	20	-0.1	+0.03	+0.03	+1.7	105.7
Hutchinson, J.	HILL 35S	Land	2	Incomplete				
	JKAA 562S	York	4	Incomplete				
	JWRH 639S	York	2	Incomplete				
Knobben, G.	GARY 42S	York	2	Incomplete				
	ARHL 206S	York	4	Incomplete				
	GARY 294S	York	2	Incomplete				
	AREE 352S	York	2	Incomplete				
Knobben, J.	ARHL 206S	York	6	Incomplete				
Matejka, G.	KKEF 1022R	York (U)	24	-0.4	0.00	-0.05	-4.5	104.1
	KKEF 3160R	York (C)	12	-2.2	-0.04	+0.14	-0.5	113.2
	KKEF 222S	York (U)	16	-0.5	+0.04	-0.01	+0.3	111.6
	ACUT 384S	York (C)	12	-0.1	+0.04	+0.03	-5.8	108.2
	RITR 655S	York (N)	16	-1.4	-0.02	-0.03	+3.3	110.1
	KKEF 1110S	York	4	Incomplete				
	KKEF 2186S	York (N)	10	-0.2	+0.04	+0.07	-4.7	110.6
	KKEF 2193S	York (C)	10	-0.5	+0.01	-0.05	+1.3	108.0
	KKEF 2461S	York	4	Incomplete				
	KKEF 2701S	York	6	Incomplete				
	KKEF 3370S	York	5	Incomplete				
	KKEF 3415S	York (N)	8	-0.5	+0.02	-0.04	-4.6	110.5
	ACUT 124T	York (N)	8	-0.9	+0.03	-0.11	+1.6	115.3
	KKEF 1078T	York	4	Incomplete				
	KKEF 1494T	York	2	Incomplete				
	KKEF 1861T	York	4	Incomplete				
Matejka, T.	ASDZ 22S	Land (U)	13	+0.6	+0.01	+0.02	+1.0	98.2
	DASA 1T	Land	2	Incomplete				
	TONY 2320T	Land	6	Incomplete				
Morinville Colony	ARHL 730R	Land	4	Incomplete				
	ARHL 22S	Land	2	Incomplete				
	MCMC 021T	Land	2	Incomplete				
Papenhuyzen, C.	ASUS 34S	York	2	Incomplete				
	ASUS 50S	York	2	Incomplete				
	AOVX 2R	Hamp (C)	10	-2.0	-0.01	+0.09	+3.4	122.1
	ASUS 49S	Hamp	6	Incomplete				
	DASA 870T	Hamp	2	Incomplete				
Reiter Farms	RITR 205R	York (C)	12	+1.7	+0.08	+0.05	-2.7	98.7
	KKEF 1570R	York (C)	16	+1.1	+0.05	+0.13	-6.7	99.5
	AREE 92S	York	7	Incomplete				
	ARBF 706S	York	6	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age (days)	Index
Reiter Farms (continued)	KKEF 1053S	York (N)	18	-1.2	+0.05	-0.06	-1.7	121.6
	KKEF 2566S	York (N)	15	-0.1	+0.06	+0.05	-9.0	112.9
	ACUT 297T	York (N)	8	+2.8	+0.06	+0.11	-8.3	88.4
	KKEF 440T	York (N)	17	+0.02	+0.01	-0.04	+1.7	100.3
	RITR 664T	York (N)	8	+0.5	+0.02	+0.01	+1.6	100.1
Rice, R.	AHPZ 20S	Hamp	2	Incomplete				
	AHPZ 53S	Duroc	2	Incomplete				
	ASZT 56S	York	4	Incomplete				
Roeske, M.	ROSE 91R	York (C)	8	+1.2	-0.04	+0.15	+5.8	81.4
	TUY 237S	York (C)	8	+0.7	-0.08	+0.16	+1.1	75.8
	ROSE 208T	York	1	Incomplete				
	ROSE 336T	York	2	Incomplete				
	KKEF 532T	York (N)	10	+1.4	-0.01	-0.06	-1.6	85.6
Wakeena Farm	KEEN 36S	Land	2	Incomplete				
	ARJC 51S	York (U)	12	-0.1	-0.02	+0.04	-3.6	97.3
Alberta A.I. Sires	EJD 1941P	York (U)	44	-1.3	-0.05	-0.06	+5.7	100.7
	ASZT 194R	York (U)	10	+1.0	-0.06	+0.08	+11.5	78.9
	BUFA 484S	York (N)	17	+1.8	0.00	+0.09	-1.2	82.5
	AMBW 514S	York	6	Incomplete				
	JKAA 561S	York (N)	19	-0.7	+0.04	+0.02	-8.3	116.6
	ANZI 1913S	York (N)	12	-0.4	+0.02	+0.10	+6.3	101.4
	KKEF 3380S	York (N)	10	+1.3	+0.01	+0.07	+1.0	89.2
	RITR 924T	York	2	Incomplete				
	KKEF 1490T	York	2	Incomplete				
	GIP 911P	Land (U)	23	-2.9	-0.05	+0.04	+1.7	115.1
	JBFA 2S	Land (N)	8	-1.0	+0.01	+0.04	-4.1	110.4
	DLDA 557S	Land	4	Incomplete				
	CC 168S	Lac	6	Incomplete				
	AJCM 1481S	Hamp	2	Incomplete				
	ANZI 512S	Duroc	2	Incomplete				
	ARVY 557S	Duroc	2	Incomplete				
Ontario A.I. Sires	EJD 2473L	York	4	Incomplete				
	ABEM 180P	York	2	Incomplete				
	AMBW 278P	York	2	Incomplete				
	AMBW 378P	York	2	Incomplete				
	ADBM 1R	York	2	Incomplete				
	ARUW 36S	York	2	Incomplete				
	LMRW 186S	York	2	Incomplete				
	ASPX 747S	York	8	-0.4	+0.03	+0.05	-6.1	110.5
	JPVH 2117S	York	2	Incomplete				
	BVA 1607T	Land	4	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age	Index
Alberta Swine Breeding Centre	LDUC 444P	York (U)	22	-2.15	-0.07	-0.16	3.9	105.0
	EJD 1941P	York (U)	42	-1.2	-0.05	-0.06	+4.9	100.5
	TUY 60R	York	4	Incomplete				
	ASZT 194R	York (N)	8	+1.3	-0.06	+0.07	+15.7	75.6
	ALRS 216R	York (U)	20	-0.42	0.00	-0.04	+4.0	103.0
	KKEF 1740R	York	5	Incomplete				
	KKEF 3380R	York	6	Incomplete				
	DLDA 600M	Land (U)	14	-1.11	+0.05	-0.08	-5.5	112.1
	GIP 911P	Land (U)	17	-3.5	-0.05	+0.03	+2.3	119.6
	ANLG 912P	Land (U)	10	+1.9	+0.04	+0.02	-3.7	94.2
	TOPS 204R	Land (N)	10	-0.4	+0.07	-0.05	-8.2	119.3
	AOUD 509R	Land (N)	10	-0.7	+0.03	-0.04	-1.8	110.3
	JBFA 2S	Land	6	Incomplete				
	BL 0160S	Lac	6	Incomplete				
	CC 168S	Lac	2	Incomplete				
	ASUM 190P	Hamp (N)	8	-1.2	-0.02	+0.02	+11.2	105.3
	ASCG 20R	Duroc	2	Incomplete				
Ontario A.I.	EJD 2473L	York	2	Incomplete				
	CPK 636P	York	4	Incomplete				
	WJAT 148R	York	2	Incomplete				

TABLE VI

BOAR SALE ACTIVITY IN ALBERTA

1976 - 1986

YEAR	LOCATION	NUMBER SOLD	TOTAL SALES ($)	AVERAGE PRICE ($)
1986	Leduc	111	55,835	503.02
	Lacombe	109	54,650	501.38
		220	110,485	502.20
1985	Leduc	81	34,055	420.42
	Lacombe	105	48,360	460.57
		186	82,415	443.09
1984	Leduc	129	61,435	476.24
	Lacombe	138	68,470	496.16
		267	129,905	486.54
1983	Leduc	95	40,160	422.74
	Lacombe	128	60,355	471.52
		223	100,515	450.74
In 1983 Leduc Station missed one fill due to interior renovations.				
1982	Leduc	143	63,765	445.91
	Lacombe	136	69,235	509,08
		279	133,000	476.70
1981	Leduc	77	35,435	460.19
	Lacombe	154	81,930	532.01
		231	117,365	508.07
1980	Leduc	100	38,190	382.00
	Lacombe	135	66,590	493.00
		235	104,780	437.50
1979	Leduc	113	45,605	403.58
	Lacombe	175	85,500	488.57
		288	131,105	455.23
1978	Leduc	126	57,545	456.71
	Lacombe	116	52,535	452.89
		242	110,080	454.88
1977	Edmonton	110	46,155	419.59
	Lacombe	112	46,750	417.41
		222	92,905	418.49
1976	Edmonton	83	38,590	464.90
	Lacombe	105	42,290	402.76
		188	80,880	430.21

PART C: HOME TEST RESULTS

TABLE VII

ALBERTA SWINE HOME TESTING ACTIVITY
1986 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	6	8	68	0.4
20-50	8	11	241	1.4
51-100	9	13	721	4.2
101-200	24	34	3634	21.2
201-500	14	20	3878	22.7
500 & over	10	14	8570	50.1
TOTAL	71	100	17112	100

TABLE VII (a)

ALBERTA SWINE HOME TESTING ACTIVITY
1985 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	10	12	125	0.7
20-50	11	13	330	1.8
51-100	9	11	671	3.7
101-200	24	28	3480	19.2
201-500	20	24	5023	27.7
500 & over	10	12	8486	46.9
TOTAL	84	100	18115	100

TABLE VIII

HOME TESTED BOARS - BY BREED

	1986			1985		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	1830	13.7	156	1875	14.1	159
Landrace	685	14.3	153	660	14.7	156
Lacombe	349	14.1	157	460	14.9	162
Hampshire	300	13.2	164	215	13.2	169
Duroc	233	14.3	160	212	13.8	157
Crossbred	2064	13.7	153	2219	14.4	154
TOTAL:	5461	13.8	155	5641	14.3	157

TABLE IX

HOME TESTED GILTS - BY BREED

	1986			1985		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	2762	14.9	164	3195	15.4	167
Landrace	1002	16.0	158	1091	15.5	162
Lacombe	409	15.5	167	614	15.8	168
Hampshire	332	13.9	173	252	14.0	172
Duroc	178	15.5	160	212	15.2	159
Crossbred	6968	15.2	169	7110	15.8	172
TOTAL	11651	15.2	167	12,474	15.6	169

TABLE X

SEEDSTOCK FARMS
53 Active Users

	BOARS			GILTS		
	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)
Yorkshire	1797	13.8	155	2665	14.9	164
Landrace	685	14.3	153	1002	16.0	158
Lacombe	349	14.1	157	409	15.5	167
Hampshire	300	13.2	164	332	13.9	173
Duroc	233	14.3	160	178	15.5	160
Crossbred	1968	13.7	152	4068	15.6	166
Total	5332	13.9	155	8672	15.4	165

COMMERCIAL FARMS
18 Active Users

Yorkshire	33	12.5	173	79	13.8	176
Landrace						
Lacombe						
Hampshire						
Duroc						
Crossbred	96	12.2	171	2900	14.6	172
Total	129	12.2	172	2979	14.6	172

OVERALL TOTALS

	5461	13.8	155	11,651	15.2	167

TABLE XI

HOME TEST AVERAGES BY SEX AND BREED

As feeding management and environmental factors under which pigs are home tested can vary significantly between the various herds, and since limited numbers do not reflect true averages, the following herd averages should not be considered as a total measure of the genetic merit of the pigs tested in each herd.

SEEDSTOCK FARMS

YORKSHIRE

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Agra Farms	M	138	14.5	159
	F	183	15.0	163
Baert, M.	F	14	14.4	161
Barrett, R. & A.	M	10	14.7	142
	F	5	15.6	144
Bloomsbury Farms	M	25	15.8	159
	F	33	16.8	165
Braat, J.	M	125	12.0	149
	F	267	12.4	156
Brownlee, J.	M	73	14.8	162
	F	58	15.4	167
Carrich Stock Farm	M	2	13.1	181
	F	6	14.8	191
Eringfeld, B.	M	85	14.2	162
	F	143	15.3	163
Five Lakes Farms	M	241	13.3	156
	F	203	14.9	167
Gray, L.	M	5	14.1	144
	F	18	14.9	155
Gwynne Vista Farms	M	80	13.9	169
	F	115	14.8	174
Kaveander Farms	M	47	15.1	170
	F	120	15.7	171

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE 90 KG. (days)
Knobben, G.	M	41	12.6	153
	F	57	14.0	161
Knobben, J.	M	86	12.6	150
	F	75	12.8	155
Maschmeyer, D.	M	57	14.0	147
	F	52	14.9	151
Maschmeyer, G.	M	41	14.0	141
	F	29	14.3	147
Matejka, G.	M	205	13.2	154
	F	359	14.4	172
McCarthy, J.	M	40	15.0	145
	F	59	16.7	150
Milne, B.	M	151	14.1	148
	F	201	15.3	157
Morinville Colony	M	6	13.2	155
	F	3	13.4	158
Neufeld Farms	F	15	15.5	161
Papenhuyzen, C.	M	21	17.6	165
	F	23	19.4	162
Reiter Farms	M	137	12.9	152
	F	213	15.8	160
Rice, R.	M	32	14.3	165
	F	41	15.2	165
Roeske, M.	M	45	15.1	150
	F	192	16.9	162
Turko, D.	M	13	15.2	153
	F	43	15.7	156
Vandenberg, J.	M	30	15.1	161
	F	18	13.7	165
Wakeena Farm	M	4	13.7	151
	F	40	15.0	167

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Weber Farms	M	15	15.3	173
	F	24	16.1	177
West, N. & T.J.	M	33	14.2	160
	F	22	15.3	170
Wiersema, S. & R.	M	9	13.4	169
	F	52	14.9	191
		LANDRACE		
Agra Farms	M	171	13.5	164
	F	220	13.2	167
Barrett, R. & A.	M	126	15.4	137
	F	183	16.8	144
Braat, J.	M	37	14.3	148
	F	46	15.3	154
Carrich Stock Farm	F	26	14.4	186
Dieterman, B.	M	2	17.7	147
	F	10	13.6	144
Duff, B.	M	6	15.8	157
	F	16	15.2	150
Duff, D.	M	61	14.7	143
	F	101	14.7	149
Eringfeld, B.	M	7	14.2	162
	F	10	14.1	164
Hahn, H.	M	10	15.4	168
	F	20	15.3	196
Hutchinson, J.	M	6	12.5	186
	F	7	13.5	182
Knobben, G.	M	11	14.1	147
	F	13	14.8	151
Knobben, J.	M	12	12.8	151
	F	10	13.6	153

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Lakeland College	M	90	14.9	165
	F	121	15.9	167
Maschmeyer, G.	M	18	13.9	132
	F	17	14.7	135
Matejka, T.	M	23	14.7	150
	F	45	15.6	170
McCarthy, K.	M	10	13.4	141
	F	17	14.4	143
Milne, B.	M	48	13.6	148
	F	61	14.5	151
Morinville Colony	M	19	14.1	151
	F	28	14.7	152
Neufeld Farms	M	2	13.2	160
	F	2	14.4	165
Papenhuyzen, C.	M	1	18.9	164
	F	1	17.8	142
Reiter Farms	M	4	12.5	164
	F	6	12.9	166
Wakeena Farm	M	10	14.5	159
	F	40	15.2	163
West, N. & T.J.	M	1	17.5	154
	F	2	15.2	149
		LACOMBE		
Baert, M.	M	5	14.7	159
	F	6	16.5	163
Bloomsbury Farms	M	65	16.6	146
	F	75	17.0	151
Cameron, A.	M	5	12.4	183
	F	4	15.3	183
Five Lakes Farms	M	153	13.5	155
	F	135	15.4	166

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Gwynne Vista Farms	M	121	13.6	165
	F	187	14.8	173
Jacobsson, G.	F	2	16.0	160
		HAMPSHIRE		
Bloomsbury Farms	M	35	14.2	164
	F	50	14.3	180
Braat, J.	M	27	13.7	142
	F	31	14.5	150
Brownlee, J.	M	53	12.8	177
	F	52	13.2	180
Milne, B.	M	1	11.9	160
	F	3	13.3	156
Morinville Colony	M	1	11.0	179
	F	7	13.9	166
Papenhuyzen, C.	M	16	15.1	168
	F	44	14.3	177
Ranchview Test Barn	F	4	14.2	115
Reiter Farms	M	9	13.7	162
	F	5	13.8	157
Rice, H.	M	3	14.1	164
	F	2	12.7	168
Rice, R.	M	17	13.8	166
	F	9	14.8	175
West, N. & T.J.	M	3	14.5	167
	F	1	13.6	187
		DUROC		
Baert, M.	M	20	14.8	156
	F	9	15.9	169
Braat, J.	M	28	13.2	158
	F	26	14.0	163

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Lakeland College	M	2	15.6	191
	F	4	15.9	179
Maschmeyer, G.	M	59	14.4	148
	F	48	15.9	144
Matejka, S.	M	1	15.5	156
	F	9	16.1	170
Milne, B.	M	2	15.9	141
	F	6	15.2	152
Neufeld Farms	M	38	13.8	166
	F	16	15.1	170
Ranchview Test Barn	M	7	12.3	166
	F	6	14.5	167
Ranchview "A"	M	14	13.8	175
	F	18	15.5	175
Reiter Farms	M	2	16.9	139
	F	4	14.7	171
Rice, H.	M	4	14.3	168
Rice, R.	M	38	14.7	174
	F	17	15.5	175
Vandenberg, J.	M	18	15.3	151
	F	15	16.9	138
CROSSBRED OR COMMERCIAL				
(i.e. any pigs that cannot be identified as belonging to a certain breed).				
Baert, M.	F	116	16.5	149
Barrett, R. & A.	M	7	12.5	133
	F	14	16.9	139
Bloomsbury Farms	M	2	15.6	134
	F	5	17.5	139
Braat, J.	M	118	13.5	145
	F	81	14.1	153

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Cameron, A.	M	2	16.1	143
Carrich Stock Farms	M	3	14.1	182
	F	89	14.7	183
Groot, C.	M	118	14.2	166
	F	152	14.8	169
Gwynne Vista Farms	M	7	15.0	168
	F	190	15.9	170
Jacobsson, G.	F	186	15.4	169
Knobben, G.	M	5	14.1	146
Knobben, J.	M	11	13.4	145
	F	7	13.0	147
Lepp, S.	F	113	16.7	170
Maschmeyer, D.	M	2	14.3	133
	F	3	14.1	136
Maschmeyer, G.	M	15	13.9	141
	F	10	15.7	147
Matejka, G.	M	1	13.8	154
	F	13	14.7	164
Milne, B.	M	6	14.9	140
	F	329	15.1	152
Morinville Colony	M	52	13.9	168
	F	174	15.3	173
Neufeld Farms	M	90	14.2	156
	F	37	15.3	160
Old House Farms	F	155	15.0	175
Olds College	M	16	14.4	164
	F	488	15.7	161
Papenhuyzen, C.	M	3	16.2	144
	F	6	16.5	151
Ranchview Test Barn	M	1161	13.5	149
	F	98	15.1	167

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Ranchview "A"	M	14	15.6	148
	F	242	15.9	168
Ranchview "B"	M	216	14.1	161
	F	866	15.5	169
Reiter Farms	M	31	13.7	148
	F	35	15.9	156
Rice, H.	M	11	14.0	163
Rice, R.	M	15	14.3	163
	F	9	15.4	163
Turko, D.	F	2	17.6	168
Weber Farms	F	47	15.5	158
West, N. & T.J.	M	19	15.6	158
	F	230	16.6	162
Wierenga, C.	F	141	15.4	175
Wiersema, S. & R.	M	5	14.7	170
	F	12	14.8	175
Woelk Farms, Unit #1	M	17	13.4	171
	F	105	18.0	173
Woelk Farms, Unit #2	M	5	14.6	168
	F	113	16.8	175
Vandenberg, J.	M	16	14.8	157

COMMERCIAL FARMS

BREEDER	BREED & SEX		NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
'Commercial' breed means any pigs that cannot be identified as belonging to a certain breed.					
A. & J. Tersteeg	Comm	M	5	13.2	157
	Comm	F	175	15.0	166
Bontrup, M.	Comm	F	157	14.9	174
Derewianka, C.	Comm	F	184	17.0	181
Deschner Farms	Comm	M	33	11.2	183
	Comm	F	11	14.0	191
E. C. Farms	Comm	F	64	15.1	176
Fairview College	York	M	33	12.5	173
	York	F	71	13.0	179
	Comm	F	53	15.1	182
G.M.H. Bluebird Ranch	Comm	M	3	14.4	192
	Comm	F	11	15.0	187
Hall, D.	Comm	M	3	15.3	141
	Comm	F	72	14.0	175
Hillary, W.	Comm	F	111	15.2	165
Koot, H.	Comm	F	141	15.3	175
Lenz Farms	Comm	F	178	16.7	178
Little, R.R.& G.J.	Comm	F	189	16.0	176
Lyman, A. & S.	York	F	8	20.4	145
Northern Lights Clg	Comm	F	47	15.2	202
Pain, S.	Comm	F	257	15.1	177
Slingerland, B.	Comm	M	10	12.9	149
	Comm	F	131	12.4	157
Stern, R.	Comm	F	28	15.3	153
Vandendool, J.	Comm	M	42	12.3	167
	Comm	F	1091	13.5	168

SOW PRODUCTIVITY AND MANAGEMENT PROGRAM
32 Active Herds

	YORKS	LAND	LAC	HAMP	DUROC	REDS	COMM	TOTAL
Litters Weaned	803	388	185	62	11	5	3207	4661
Pigs Weaned	7169	3504	1658	526	98	35	28890	41880
Services/Farrowing	1.1	1.1	1.0	1.0	1.1	1.4	1.1	1.1
Farrowing/Interval (Days)	162	157	160	155	156	193	156	157
Weaning to Conception (Days)	16.8	12.9	15.4	12.3	10.7	36.5	13.1	13.8
Total Born	11.1	10.6	10.9	9.5	9.8	10.2	10.9	10.9
Born Live	9.9	9.6	10.0	9.1	9.3	7.4	10.0	9.9
Pre-Wean Mortality (%)	11.8	12.3	12.5	13.4	5.8	5.4	11.2	11.5
Pigs Weaned	8.9	9.0	9.0	8.5	8.9	7.0	9.0	9.0
Litter/Sow/Year	2.3	2.3	2.3	2.4	2.3	1.9	2.3	2.3
Pigs Weaned Per Sow Per Year	20.5	20.8	20.6	20.4	20.5	13.3	20.7	20.7
Kg of Pigs at 21 Days Per Sow Per Year	115.8	124.6	N/A	125.7	111.2	90.2	123.2	122.5